

Practical-7

Part – 7 (Grid Layout)

Code:

```
import 'package:flutter/material.dart';

void main() {
  runApp(const LayoutApp());
}

class LayoutApp extends StatelessWidget {
  const LayoutApp({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Custom Layout',
```

```
    home: const LayoutScreen(),  
  );  
}  
}
```

```
class LayoutScreen extends StatelessWidget {  
  const LayoutScreen({Key? key}) : super(key: key);
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    return Scaffold(  
      appBar: AppBar(  
        title: const Text('Practical for Layout'),  
      ),  
      body: Column(  
        children: [  
          // First half of the layout  
          Expanded(  
            child: Row(  
              children: [  
                // Large box on the left  
                Expanded(  
                  flex: 1,  
                  child: Container(  
                    color: Colors.pinkAccent,  
                    child: const Center(  
                      child: Text(  
                        '1',  
                        style: TextStyle(  
                          fontSize: 48,  
                          color: Colors.white,                        ),  
                      ),  
                    ),  
                  ),  
                // Second half of the layout  
                Expanded(  
                  flex: 1,  
                  child: Container(  
                    color: Colors.pinkAccent,  
                    child: const Center(  
                      child: Text(  
                        '2',  
                        style: TextStyle(  
                          fontSize: 48,  
                          color: Colors.white,                        ),  
                      ),  
                    ),  
                  ),  
                // Third half of the layout  
                Expanded(  
                  flex: 1,  
                  child: Container(  
                    color: Colors.pinkAccent,  
                    child: const Center(  
                      child: Text(  
                        '3',  
                        style: TextStyle(  
                          fontSize: 48,  
                          color: Colors.white,                        ),  
                      ),  
                    ),  
                  ),  
              ],  
            ),  
          ),  
          // Second half of the layout  
          Expanded(  
            child: Row(  
              children: [  
                // Large box on the left  
                Expanded(  
                  flex: 1,  
                  child: Container(  
                    color: Colors.pinkAccent,  
                    child: const Center(  
                      child: Text(  
                        '4',  
                        style: TextStyle(  
                          fontSize: 48,  
                          color: Colors.white,                        ),  
                      ),  
                    ),  
                  ),  
                // Second half of the layout  
                Expanded(  
                  flex: 1,  
                  child: Container(  
                    color: Colors.pinkAccent,  
                    child: const Center(  
                      child: Text(  
                        '5',  
                        style: TextStyle(  
                          fontSize: 48,  
                          color: Colors.white,                        ),  
                      ),  
                    ),  
                  ),  
              ],  
            ),  
          ),  
          // Third half of the layout  
          Expanded(  
            child: Row(  
              children: [  
                // Large box on the left  
                Expanded(  
                  flex: 1,  
                  child: Container(  
                    color: Colors.pinkAccent,  
                    child: const Center(  
                      child: Text(  
                        '6',  
                        style: TextStyle(  
                          fontSize: 48,  
                          color: Colors.white,                        ),  
                      ),  
                    ),  
                  ),  
                // Second half of the layout  
                Expanded(  
                  flex: 1,  
                  child: Container(  
                    color: Colors.pinkAccent,  
                    child: const Center(  
                      child: Text(  
                        '7',  
                        style: TextStyle(  
                          fontSize: 48,  
                          color: Colors.white,                        ),  
                      ),  
                    ),  
                  ),  
              ],  
            ),  
          ),  
        ],  
      ),  
    );  
  }  
}
```

```

    ),
    ),
    ),
    ),
),
// Right grid layout (2x2)
Expanded(
  child: Column(
    children: [
      Expanded(
        child: Row(
          children: [
            Expanded(
              child: Container(
                color: Colors.green,
                child: const Center(
                  child: Text(
                    '2',
                    style: TextStyle(
                      fontSize: 24,
                      color: Colors.white,
                    ),
                  ),
                ),
              ),
            Expanded(
              child: Container(
                color: Colors.orange,
                child: const Center(
                  child: Text(

```

```
        '3',
        style: TextStyle(
          fontSize: 24,
          color: Colors.white,
        ),
      ),
    ),
  ),
),
Expanded(
  child: Container(
    color: Colors.red,
    child: const Center(
      child: Text(
        '4',
        style: TextStyle(
          fontSize: 24,
          color: Colors.white,
        ),
      ),
    ),
  ),
),
],
),
),
Expanded(
  child: Row(
    children: [
      Expanded(
        flex: 2,
```

```
child: Container(  
  color: Colors.purple,  
  child: const Center(  
    child: Text(  
      '5',  
      style: TextStyle(  
        fontSize: 24,  
        color: Colors.white,  
      ),  
    ),  
  ),  
),  
Expanded(  
  child: Container(  
    color: Colors.blue,  
    child: const Center(  
      child: Text(  
        '6',  
        style: TextStyle(  
          fontSize: 24,  
          color: Colors.white,  
        ),  
      ),  
    ),  
  ),  
),  
],  
),  
),  
],
```

```

    ),
    ),
  ],
),
),
// Second half of the layout (mirror of the first)
Expanded(
  child: Row(
    children: [
      // Left grid layout (2x2)
      Expanded(
        child: Column(
          children: [
            Expanded(
              child: Row(
                children: [
                  Expanded(
                    flex: 2,
                    child: Container(
                      color: Colors.purple,
                      child: const Center(
                        child: Text(
                          '5',
                          style: TextStyle(
                            fontSize: 24,
                            color: Colors.white,
                          ),
                        ),
                      ),
                    ),
                  ),
                ),
              ),
            ),
          ],
        ),
      ),
    ],
  ),
),

```

```
Expanded(  
  child: Container(  
    color: Colors.blue,  
    child: const Center(  
      child: Text(  
        '6',  
        style: TextStyle(  
          fontSize: 24,  
          color: Colors.white,  
        ),  
      ),  
    ),  
  ),  
],  
),  
),
```

```
Expanded(  
  child: Row(  
    children: [  
      Expanded(  
        child: Container(  
          color: Colors.green,  
          child: const Center(  
            child: Text(  
              '2',  
              style: TextStyle(  
                fontSize: 24,  
                color: Colors.white,  
              ),  
            ),  
          ),  
        ),  
      ],  
    ),  
  ),  
),
```

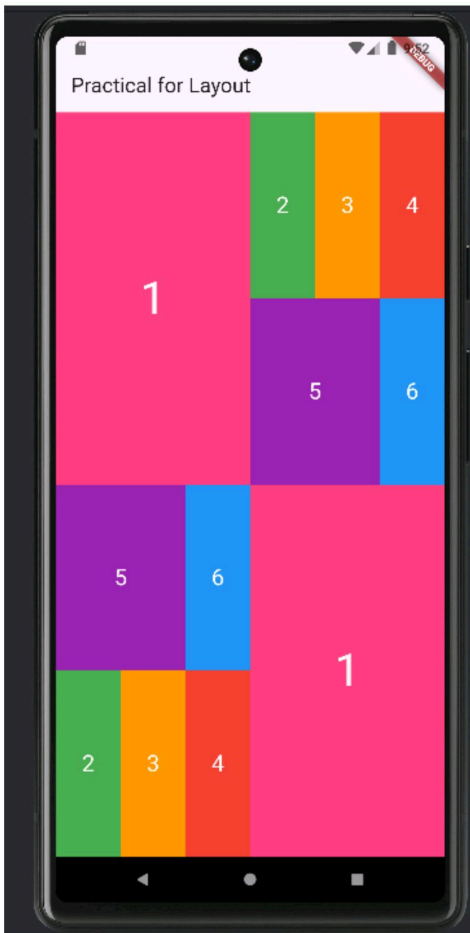
```
),  
    ),  
  ),  
Expanded(  
  child: Container(  
    color: Colors.orange,  
    child: const Center(  
      child: Text(  
        '3',  
        style: TextStyle(  
          fontSize: 24,  
          color: Colors.white,  
        ),  
      ),  
    ),  
  ),  
),  
Expanded(  
  child: Container(  
    color: Colors.red,  
    child: const Center(  
      child: Text(  
        '4',  
        style: TextStyle(  
          fontSize: 24,  
          color: Colors.white,  
        ),  
      ),  
    ),  
  ),  
),  
),
```



```

        ],
      ),
    ),
    ],
  ),
),
// Large box on the right
Expanded(
  flex: 1,
  child: Container(
    color: Colors.pinkAccent,
    child: const Center(
      child: Text(
        '1',
        style: TextStyle(
          fontSize: 48,
          color: Colors.white,
        ),
      ),
    ),
  ),
),
),
),
),
),
],
),
),
],
),
);
}
}

```



Practical-8

Part – 8 (A) (Container with ScrollView)

Code: